

	20.09.06	21.09.06	22.09.06
9.15 - 10.45 Lectures	Introduction (must-knows of the underlying platform and resources) - Linux - Sequence databases - Phylogenetic programs - The concept of ARB	Phylogeny (no reasonable probe design without basic knowledge) - Molecular markers - Alignment - Models of evolution - Methods for tree reconstruction	Probe design - Concept of molecular probes - Applications for molecular probes - Probes and Microarrays - Problems, limitations & solutions
	Break	Break	Break
11.15 -13.00 Demonstrations	Linux, installation of ARB, and getting familiar with the program - Basics about Linux - Installation of ARB - The concept of ARB	Building and maintenance of ARB datasets - Import of sequences - Alignment - Fast addition to a phylogenetic tree - Short overview on advanced tree reconstruction	Probe Design and Probe Match with ARB - Probe design - Probe match - Visualizations - Multiple probes
	Lunch break	Lunch break	Lunch break
14.00 -17.00 Course work Break: 15.30 -15.45	- First overview on functions of ARB - Data retrieval from public databases - First steps in ARB	Computer work The typical working process: - Import of sequences - Alignment - Phylogenetic addition of sequences - Tree optimizations	Computer work - Design of own probes - Remaining questions